

**REMARKS**

In the Office Action dated March 15, 2006, the Examiner required restriction to one of the following inventions:

Group I: Claims 2-6, 23, 25-27 and 29-30, drawn to a soybean seed of claim 1 comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, and a transformed soybean plant bearing seed, classified in class 800, subclass 312.

Group II: Claims 2-6, 23, 25-27 and 29-30, drawn to a soybean seed of claim 1 comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, and a transformed soybean plant bearing seed, classified in class 800, subclass 312.

Group III: Claims 2-6, 23, 25-27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, and a transformed soybean plant bearing seed, classified in class 800, subclass 312.

Group IV: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a

beta-ketoacyl-ACP synthase I gene, and a transformed soybean plant, classified in class 800, subclass 312.

Group V: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, and a transformed soybean plant, classified in class 800, subclass 312.

Group VI: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, and a transformed soybean plant, classified in class 800, subclass 312.

Group VII: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, and a transformed soybean plant, classified in class 800, subclass 312.

Group VIII: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, and a transformed soybean plant, classified in class 800, subclass 312.

Group IX: Claims 2-6, 27 and 29-30, drawn to a soybean seed comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, and a transformed soybean plant, classified in class 800, subclass 312.

Groups X-XVIII: Claim 7, drawn to oil derived from the soybean seed of claim 2, classified in class 426, subclass 601.

Groups X-XVIII are directed to oil derived from the soybean seed of claim 2 as defined in Groups I-IX respectively.

Groups XIX-XXVII: Claim 8, drawn to meal derived from the soybean seed of claim 2, classified in class 426, subclass 550.

Groups XIX-XXVII are directed to meal derived from the soybean seed of claim 2 as defined in Groups I-IX respectively.

Groups XXVIII: Claim 9, drawn to a container of soybean seeds, wherein at least 25% of the seeds exhibit an oil composition comprising 55 to 80% by weight oleic acid, 10 to 40% by weight linoleic acid, 6% or less by weight linolenic acid, and 2 to 8% by weight saturated fatty acids, classified in class 800, subclass 312.

Group XXIX: Claim 11, drawn to a soybean seed of claim 10 exhibiting an oil composition that further comprises 10 to 29% by weight linoleic acid, 4.5% or less by weight linolenic acid, and 3 to 6% by weight saturated fatty acids, classified in class 800, subclass 312.

Group XXX: Claim 12, drawn to a soybean seed of claim 10 exhibiting an oil composition that further comprises 10 to 29% by weight linoleic acid, 3.0% or less by weight linolenic acid, and 2 to 3.6% by weight saturated fatty acids, classified in class 800, subclass 312.

Group XXXI: Claims 13-17, drawn to a crude soybean oil exhibiting an oil composition comprising 55 to 80% by weight oleic acid, 10 to 40% by weight linoleic acid, 6% or less by weight linolenic acid, and 2 to 8% by weight saturated fatty acids, classified in class 426, subclass 601.

Group XXXII: Claim 18, drawn to a crude soybean oil exhibiting an oil composition comprising 65 to 80% by weight oleic acid, 10 to 40% by weight linoleic acid, 6% or less by weight linolenic acid, and 2 to 8% by weight saturated fatty acids, classified in class 426, subclass 601.

Group XXXIII: Claims 19-21, drawn to a crude soybean oil exhibiting an oil composition comprising 69 to 73% by weight oleic acid, 21 to 24% by weight linoleic acid, 0.5 to 3% by weight linolenic acid, and 2 to 3% by weight saturated fatty acids, classified in class 426, subclass 601.

Group XXXIV-XLII: Claim 24, drawn to feedstock derived from the transformed plant of claim 23, classified in class 426, subclass 630.

Groups XXXIV-42 are directed to feedstock derived from the transformed plant of claim 23 as defined in Groups I-IX respectively.

Group XLIII: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 800, subclass 306, for example.

Group XLIV: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacylACP synthase IV gene, classified in class 800, subclass 306, for example.

Group XLV: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA

sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 306, for example.

Group XLVI: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 800, subclass 306, for example.

Group XLVII: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, classified in class 800, subclass 306, for example.

Group XLVIII: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 306, for example.

Group XLIX: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression

of at least one gene that is a beta-keto-acylACP synthase I gene, classified in class 800, subclass 306, for example.

Group L: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, classified in class 800, subclass 306, for example.

Group LI: Claims 27-28 and 30, drawn to a transformed temperate oilseed plant comprising a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 306, for example.

Group LII: Claims 31-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 800, subclass 281.

Group LIII: Claims 31-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, classified in class 800, subclass 281.

Group LIV: Claims 31-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that

is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 281.

Group LV: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 800, subclass 281.

Group LVI: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-keto-acylACP synthase IV gene, classified in class 800, subclass 281.

Group LVII: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 281.

Group LVIII: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 800, subclass 281.

Group LVIX: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that

is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-keto-acylACP synthase IV gene, classified in class 800, subclass 281.

Group LX: Claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FADS genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 281.

Group LXI: Claims 39, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 435, subclass 320.1.

Group LXII: Claims 39, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group LXIII: Claims 39, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group LXIV: Claims 39, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed

in a host cell, of suppressing the endogenous expression of at least two genes that are FAD3 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, classified in class 435, subclass 320.1.

Group LXV: Claims 39,53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD3 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group LXVI: Claims 39, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD3 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group LXVII: Claims 40-42, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, wherein the first set of DNA sequences is expressed as a sense cosuppression RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXVIII: Claims 40-42, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, wherein the first set of DNA sequences is expressed as a sense cosuppression RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXIX: Claims 40-42, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, wherein the first set of DNA sequences is expressed as a sense cosuppression RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXX: Claims 40, 43-44, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, wherein the first set of DNA sequences is expressed as an antisense RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXXI: Claims 40, 43-44, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, wherein the first set of DNA sequences is expressed as an antisense RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXXII: Claims 40, 43-44, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, wherein the first set of DNA sequences is expressed as an antisense RNA transcript or transcripts, classified in class 435, subclass 320.1.

Group LXXIII: Claims 40, 45, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed

in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, wherein the first set of DNA sequences is expressed as an RNA transcript capable of forming a single double-stranded RNA molecule, classified in class 435, subclass 320.1.

Group LXXIV: Claims 40, 45, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, wherein the first set of DNA sequences is expressed as an RNA transcript capable of forming a single double-stranded RNA molecule, classified in class 435, subclass 320.1.

Group LXXV: Claims 40, 45, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, wherein the first set of DNA sequences is expressed as an RNA transcript capable of forming a single double-stranded RNA molecule, classified in class 435, subclass 320.1.

Group LXXVI: Claims 46-50, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, and further comprising a third non-coding sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD3-1B gene, classified in class 435, subclass 320.1.

Group LXXVII: Claims 46-50, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, and further comprising a third non-coding sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD3-1B gene, classified in class 435, subclass 320.1.

Group LXXVIII: Claims 46-50, 53-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, and further comprising a third non-coding sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD3-1B gene, classified in class 435, subclass 320.1.

Group LXXIX: Claims 51-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a fast set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, and further comprising a third non-coding sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FATB gene, classified in class 435, subclass 320.1.

Group LXXX: Claims 51-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, and further comprising a third non-coding sequence that is capable, when expressed in a

host cell, of suppressing the endogenous expression of a FATB gene, classified in class 435, subclass 320.1.

Group LXXXI: Claims 51-54 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3-1A genes, a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, and further comprising a third non-coding sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FATB gene, classified in class 435, subclass 320.1.

Group LXXXII: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group LXXXIII: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a delta-9 desaturase gene, classified in class 435, subclass 320.1

Group LXXXIV: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase IV gene and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group LXXXV: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host

cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group LXXXVI: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group LXXXVII: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase IV gene and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group LXXXVIII: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group LXXXIX: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase I gene and a delta-9 desaturase gene, classified in claim 435, subclass 320.1.

Group XC: Claims 53-55 and 57-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least two genes that are a beta-ketoacyl-ACP synthase IV gene and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group XCI: Claims 53-54 and 56-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of a beta-ketoacyl-ACP synthase I gene, a beta-ketoacyl-ACP synthase IV gene, and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group XCII: Claims 53-54 and 56-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of a beta-ketoacyl-ACP synthase I gene, a beta-ketoacyl-ACP synthase IV gene, and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group XCIII: Claims 53-54 and 56-58, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of a betaketoacyl-ACP synthase I gene, a beta-ketoacyl-ACP synthase IV gene, and a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group XCIV: Claims 59-66, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, wherein said first set of DNA sequences comprises a first non-coding sequence that expresses a

first sequence that exhibits at least 90% identity to a non-coding region of a FAD2 gene, a first antisense sequence that expresses a first antisense RNA sequence capable of forming a double-stranded RNA molecule with a first RNA sequence, a second non-coding sequence that expresses a second RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3 gene, and a second antisense RNA capable of forming a double-stranded RNA molecule with a second RNA sequence, classified in class 435, subclass 320.1.

Group XCV: Claims 59-66, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, wherein said first set of DNA sequences comprises a first non-coding sequence that expresses a first sequence that exhibits at least 90% identity to a non-coding region of a FAD2 gene, a first antisense sequence that expresses a first antisense RNA sequence capable of forming a double-stranded RNA molecule with a first RNA sequence, a second non-coding sequence that expresses a second RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3 gene, and a second antisense RNA capable of forming a double-stranded RNA molecule with a second RNA sequence, classified in class 435, subclass 320.1.

Group XCVI: Claims 59-66, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, wherein said first set of DNA sequences comprises a first non-coding sequence that expresses a fast sequence that exhibits at least 90% identity to a non-coding region of a FAD2 gene, a first antisense sequence that expresses a first antisense RNA sequence capable of forming a double-stranded RNA molecule with a first RNA sequence, a second non-coding sequence that expresses a second RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3 gene, and a second antisense RNA capable of forming a double-stranded RNA molecule with a second RNA sequence, classified in class 435, subclass 320.1.

Group XCVII: Claim 67, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, wherein said first set of DNA sequences further comprises a third non-coding sequence that expresses a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3-1B gene, and a third antisense sequence that expresses a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group XCVIII: Claim 67, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, wherein said first set of DNA sequences further comprises a third non-coding sequence that expresses a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3-1B gene, and a third antisense sequence that expresses a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group XCIX Claim 67, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, wherein said first set of DNA sequences further comprises a third non-coding sequence that expresses a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FAD3-1B gene, and a third antisense sequence that expresses a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group C: Claims 68-69, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase I gene, further comprising a third non-coding sequence that is capable of expressing a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FATB gene, and a third antisense sequence that is capable of expressing a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group CI: Claims 68-69, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FAD2 and FATB genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a beta-ketoacyl-ACP synthase IV gene, further comprising a third non-coding sequence that is capable of expressing a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FATB gene, and a third antisense sequence that is capable of expressing a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group CII: Claims 68-69, drawn to a recombinant nucleic acid molecule of claim 59, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are FATB and FAD3 genes, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous expression of at least one gene that is a delta-9 desaturase gene, further comprising a third non-coding sequence that is capable of expressing a third RNA sequence that exhibits at least 90% identity to a non-coding region of a FATB gene, and a third antisense sequence that is capable of expressing a third antisense RNA sequence capable of forming a double-stranded RNA molecule with the third RNA sequence, classified in class 435, subclass 320.1.

Group CIII: Claims 70-72, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD2 gene and a FAD3 gene, and a second set of DNA sequences that comprises a first coding sequence that is capable of expressing a CP4 EPSPS gene, and a second coding sequence that is capable, when expressed, of increasing the endogenous expression of a beta-ketoacyl-ACP synthase I gene, classified in class 435, subclass 320.1.

Group CIV: Claims 70-72, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD2 gene and a FAD3 gene, and a second set of DNA sequences that comprises a first coding sequence that is capable of expressing a CP4 EPSPS gene, and a second coding sequence that is capable, when expressed, of increasing the endogenous expression of a beta-ketoacyl-ACP synthase IV gene, classified in class 435, subclass 320.1.

Group CV: Claims 70-72, drawn to a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequences that is capable, when expressed in a host cell, of suppressing the endogenous expression of a FAD2 gene and a FAD3 gene, and a second set of DNA sequences that comprises a first coding sequence that is capable of expressing a CP4 EPSPS gene, and a second coding sequence that is capable, when expressed, of increasing the endogenous expression of a delta-9 desaturase gene, classified in class 435, subclass 320.1.

Group CVI: Claim 73, drawn to a nucleic acid molecule comprising a nucleic acid sequence, classified in class 435, subclass 320.1.

Group CVII: Claim 74, drawn to a nucleic acid molecule comprising a nucleic acid sequence, classified in class 435, subclass 320.1.

Applicants respectfully traverse the restriction requirement and provisionally elect the subject matter of Group LVII, claims 31 and 33-38, drawn to a method of transforming a plant cell with a recombinant nucleic acid molecule, said molecule comprising a first set of DNA sequence that is capable, when expressed in a host cell, of suppressing the endogenous expression of at least two genes that are a FAD2 gene and a FATB gene, and a second set of DNA sequences that is capable, when expressed in a host cell, of increasing the endogenous

expression of at least one gene that is a delta-9 desaturase gene, classified in class 800, subclass 281. However, Applicants submit that the Office has not proven that the search and examination of the entire application would impose an undue burden. Applicants submit that complete examination would be handled most expeditiously by treating all of the pending claims as a single entity. As MPEP §803 directs, “[i]f the search and examination of an entire application can be made without serious burden, the examiner must examine it on the merits, even though it includes claims to independent or distinct inventions.”

At least, Groups LII-LX should be examined simultaneously since all of these groups are based on the same claim and have the same class and subclass. The Examiner alleges that these methods require the use of different materials and result in the production of different products but provides no evidence. Accordingly, examination of Groups LII-LX together would pose no undue burden on the Examiner.

In order to facilitate prosecution, however, Applicants have canceled claims 1-30, 32, and 39-74 without prejudice or disclaimer to the subject matter disclosed therein by way of the present amendment. It is noted that these claims have been canceled as directed to a non-elected invention. Regardless, Applicants reserve the right to prosecute the non-elected invention in a continuing application. With this response, claims 75-94 have been newly added. As such, claims 31, 33-38, and 75-94 are currently pending. No new matter enters by this amendment. Support for the foregoing claim amendments may be found throughout the specification and in the original claims, for example, page 3, lines 8-13; page 9, lines 19-13; page 27, lines 14-22; and page 28, lines 8-13.

**CONCLUSION**

In view of the above, each of the presently pending claims is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass the application to issue. The Examiner is encouraged to contact the undersigned at (202) 942-5186 should any additional information be necessary for allowance.

Respectfully submitted,

  
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